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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/551,252	09/28/2005	Kazunori Kataoka	05649/HG	1793	
1933 7590 01/15/2009 FRISHAUF, HOLTZ, GOODMAN & CHICK, PC			EXAM	EXAMINER	
220 Fifth Avenue 16TH Floor NEW YORK, NY 10001-7708			ROGERS, JAMES WILLIAM		
			ART UNIT	PAPER NUMBER	
			1618		
			MAIL DATE	DELIVERY MODE	
			01/15/2009	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

## Office Action Summary

Application No.	Applicant(s)		
10/551,252	KATAOKA ET AL.		
Examiner	Art Unit		
JAMES W. ROGERS	1618		

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS.

- WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed
- after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any
- earned patent term adjustment. See 37 CFR 1.704(b).

Status		
1)🛛	Responsive to communication(s) fi	led on 28 September 2005.
2a) <u></u>	This action is FINAL.	2b)⊠ This action is non-final.
3)	Since this application is in condition	n for allowance except for formal matters, prosecution as to the merits
	closed in accordance with the prac-	tice under Ex parte Quayle, 1935 C.D. 11, 453 Q.G. 213

### Disposition of Claims

Ap

4)🛛	Claim(s) <u>1-25</u> is/are pending in the application.			
	4a) Of the above claim(s) is/are withdrawn from consideration.			
5)	Claim(s) is/are allowed.			
6)	Claim(s) is/are rejected.			
7)	Claim(s) is/are objected to.			
8)🛛	Claim(s) <u>1-25</u> are subject to restriction and/or election requirement.			
olicat	ion Papers			
OVI The enecification is objected to but the Everyines				

# The specification is objected to by the Examiner.

a) All b) Some \* c) None of:

10)☐ The drawing(s) filed on	_is/are: a)☐ acc	epted or b) 🗌 ob	jected to by t	the Examiner.
Applicant may not request that a	ny objection to the	drawing(s) be held	I in abeyance.	See 37 CFR 1.85(a)

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

1.∟	Certified copies of the priority documents have been received.
2.	Certified copies of the priority documents have been received in Application No
3.	Copies of the certified copies of the priority documents have been received in this National Stag
	application from the International Bureau (PCT Rule 17,2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)		
Notice of References Cited (PTO-892)	4) Interview Summary (PTO-413)	
Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date	
3) Information Disclosure Statement(s) (FTO/SE/08)	5) Notice of Informal Patent Application	_
Paper No(s)/Mail Date	6) Other: .	

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#### DETAILED ACTION

### Election/Restrictions

Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to

elect a single invention to which the claims must be restricted.

Group I, claim(s) 1-4 and 13-25, drawn to a drug delivery system wherein the polymer micelle is formed from a block copolymer comprising a hydrophilic chain as the shell and a hydrophobic polymer chain as the core.

Group II, claim(s) 1,5-6 and 13-25, drawn to a drug delivery system wherein the polymer micelle is formed from a block copolymer comprising a hydrophilic chain as the shell and a charged polymer chain as the core.

Group III, claim(s) 1,7-25, drawn to a drug delivery system wherein the polymer micelle is a core shell type polyion complex micelle comprising a hydrophilic polymer chain as a shell, a charged polymer chain and a polymer electrolyte in a core.

The inventions listed as Groups I-III do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: while all the groups are drawn to a drug delivery system comprised of micelles the various types of polymers that make up those micelles are entirely different thus the technical feature is not shared and would thus require a separate search for each polymer. As shown by Zhao (US 20020156047 A1) micelles that contain a hydrophilic shell (PEG) and a hydrophobic core do not necessarily also teach block copolymers containing charged polymers and polymer electrolytes in the core. See abstract. Thus as shown by Zhao the common technical feature of the polymers that comprise the drug delivery system is not shared.

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This application contains claims directed to more than one species of the generic invention. These species are deemed to lack unity of invention because they are not so linked as to form a single general inventive concept under PCT Rule 13.1.

The species are as follows:

The type of charged polymer within claims 8-10 and the type of polymer electrolyte within claims 11-12

Applicant is required, in reply to this action, to elect a single species to which the claims shall be restricted if no generic claim is finally held to be allowable. The reply must also identify the claims readable on the elected species, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered non-responsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

The following claim(s) are generic: 8-12.

The species listed above do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, the species lack the same or corresponding special technical features for the following reasons: for each polymer species a separate type of block copolymer would result, thus the block copolymers comprising these different species cannot be considered to share a common technical feature.

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the Application/Control Number: 10/551,252

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requirement may be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To preserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JAMES W. ROGERS whose telephone number is (571)272-7838. The examiner can normally be reached on 9:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mike Hartley can be reached on (571) 272-0616. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Michael G. Hartley/ Supervisory Patent Examiner, Art Unit 1618